

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An optical information-recording medium comprising a substrate which is formed with a plurality of lands and grooves, and a recording layer and a reflective layer which are provided on the substrate, the grooves including:

a first groove;

a second groove which is formed with pits; and

two a third ~~groove~~grooves each of which is formed with pits having widths narrower than those of the pits of the second groove, wherein:

one of the third ~~groove~~grooves is arranged between the first groove and the second groove and the second groove is arranged between the two third grooves.

2. (Currently Amended) The optical information-recording medium according to claim 1, wherein $W_g \leq W_{pb} \leq W_p$ is satisfied provided that W_g represents a half value width of the first groove, W_p represents a half value width of the pit of the second groove, and W_{pb} represents a half value width of the pit of the third ~~groove~~grooves.

3. (Currently Amended) The optical information-recording medium according to claim 1, wherein $T_g \leq T_{pb} \leq T_p$ is satisfied provided that T_g represents a recording layer recess depth ranging from an interface between the recording layer and the reflective layer over a surface of the land to an interface between the recording layer and the reflective layer over the first groove, T_p represents a recording layer recess depth ranging from the interface between the recording layer and the reflective layer over the surface of the land to an interface between the recording layer and the reflective layer over the pit of the second groove, and T_{pb} represents a recording layer recess depth ranging from the interface between the recording

layer and the reflective layer over the surface of the land to an interface between the recording layer and the reflective layer over the pit of the third ~~groove~~grooves.

4. (Currently Amended) The optical information-recording medium according to claim 1, wherein the ~~pits, which are formed in the~~second groove and the third grooves ~~the identical groove of the grooves~~, include a first pit and a second pit which has a length in a groove direction longer than that of the first pit, and $1 \leq W_2/W_1 < 1.2$ is satisfied provided that W_1 represents a maximum width in a radial direction of the substrate of the first pit, and W_2 represents a maximum width in the radial direction of the substrate of the second pit.

5. (Original) The optical information-recording medium according to claim 1, wherein the recording layer is formed of a dye.

6. (Canceled)

7. (Original) The optical information-recording medium according to claim 2, wherein a ratio W_p/W_{pb} between the half value width W_p and the half value width W_{pb} satisfies $1.05 \leq W_p/W_{pb} \leq 1.15$.

8. (Currently Amended) An optical information-recording medium comprising a substrate which is formed with a plurality of lands and grooves, and a recording layer and a reflective layer which are provided on the substrate, the grooves including:

~~two a first grooves groove;~~

~~two a second grooves groove each~~ which has a width wider than that of the first ~~groove~~grooves; and

a third groove which is formed with pits, wherein:

~~one of the second grooves groove~~ is arranged between ~~one of the first grooves groove~~ and the third groove, and the other of the second grooves is arranged between the other of the first grooves and the third groove.

9. (Currently Amended) The optical information-recording medium according to claim 8, wherein $W_g \leq W_{gb} \leq W_p$ is satisfied provided that W_g represents a half value width of the first ~~groove~~grooves, W_{gb} represents a half value width of the second ~~groove~~grooves, and W_p represents a half value width of the pit of the third groove.

10. (Original) The optical information-recording medium according to claim 9, wherein a ratio W_{gb}/W_g between the half value width W_{gb} and the half value width W_g satisfies $1.05 \leq W_{gb}/W_g \leq 1.15$.

11. (Currently Amended) The optical information-recording medium according to claim 8, wherein $T_g \leq T_{gb} \leq T_p$ is satisfied provided that T_g represents a recording layer recess depth ranging from an interface between the recording layer and the reflective layer over a surface of the land to an interface between the recording layer and the reflective layer over the first ~~groove~~grooves, T_{gb} represents a recording layer recess depth ranging from the interface between the recording layer and the reflective layer over the surface of the land to an interface between the recording layer and the reflective layer over the second ~~groove~~grooves, and T_p represents a recording layer recess depth ranging from the interface between the recording layer and the reflective layer over the surface of the land to an interface between the recording layer and the reflective layer over the pit of the third groove.

12. (Currently Amended) The optical information-recording medium according to claim 8, wherein the ~~pits, which are formed in the identical groove of the grooves, include~~the third groove includes a first pit and a second pit which has a length in a groove direction longer than that of the first pit, and $1 \leq W_2/W_1 < 1.2$ is satisfied provided that W_1 represents a maximum width in a radial direction of the substrate of the first pit, and W_2 represents a maximum width in the radial direction of the substrate of the second pit.

13. (Original) The optical information-recording medium according to claim 8, wherein the recording layer is formed of a dye.

14. (Original) The optical information-recording medium according to claim 13, wherein the dye is an azo dye.

15-19. (Canceled)

20. (Withdrawn-Currently Amended) A method for producing the optical information-recording medium as defined in claim 8, comprising:

exposing a photosensitive material with a pattern corresponding to ~~at~~the first ~~groove~~grooves, ~~at~~the second ~~groove~~grooves, and pits of a third groove by irradiating the photosensitive material formed on a master disk with three different exposure intensities;

developing the master disk after the exposure to form the pattern corresponding to the first ~~groove~~grooves, the second ~~groove~~grooves, and the third groove equipped with the pits;

forming a substrate with the master disk on which the pattern is formed; and

forming a recording layer and a reflective layer on the substrate.

21. (Withdrawn) The method for producing the optical information-recording medium according to claim 20, further comprising performing etching by RIE in the development.

22-23. (Canceled)

24. (Withdrawn) The method for producing the optical information-recording medium according to claim 20, wherein the exposure intensity is changed during the exposure with the pattern corresponding to the pits such that a first exposure intensity is firstly used, a second exposure intensity, which is lower than the first exposure intensity, is used thereafter, and then the exposure intensity is changed to the first exposure intensity.

25. (Withdrawn) The method for producing the optical information-recording medium according to claim 24, wherein periods, in which the exposure is performed with the first exposure intensity, are set to 1T to 1.5T respectively provided that T represents a clock cycle used when the optical information-recording medium is subjected to reproduction.

26. (Withdrawn) The method for producing the optical information-recording medium according to claim 20, further comprising performing the exposure with an exposure intensity of zero in addition to the exposure intensities during the exposure of the master disk.

27. (Currently Amended) An optical information-recording medium comprising a substrate which is formed with a plurality of lands and grooves, and a recording layer and a reflective layer which are provided on the substrate, the grooves including:

a first groove;

a second groove which has a width wider than that of the first groove;

a third groove which is formed with pits; and

a fourth groove which is formed with pits having widths narrower than those of the pits of the third groove and which has a width narrower than that of the second groove, wherein:

the first to fourth grooves are arranged in an order of the first groove, the second groove, the fourth groove, and the third groove.

28. (Canceled)

29. (Original) The optical information-recording medium according to claim 28, wherein a ratio W_{gb}/W_g between the half value width W_{gb} and the half value width W_g satisfies $1.03 \leq W_{gb}/W_g \leq 1.15$.

30. (Original) The optical information-recording medium according to claim 27, wherein the recording layer is formed of a dye.

31. (Canceled)